Journal of Luminescence 52 (1992) 349–351
North-Holland

JOURNAL OF
LUMINESCENCE

Author index

Austin, R.F., see Stanley, R.P. 52 (1992) 109
Awschalom, D.D., J.F. Smyth, N. Samarth, H. Luo and J.K. Furdyna, Magnetic and electronic spin dynamics in magnetic semiconductor quantum structures 52 (1992) 165

Baltramiejūnas, R., V.D. Ryzhikov, V. Gavryushin, A. Kazlauskas, G. Račiukaitis, V.I. Silin, D. Juodžbalis and V. Stepankevičius, Luminescent and nonlinear spectroscopy of recombination centers in isovalent doped ZnSe:Te crystals 52 (1992) 71
Bastard, G., see Peter, G. 52 (1992) 147
Berroir, J.-M., see Peter, G. 52 (1992) 147
Borowicz, P., A. Grabowska, R. Wortmann and W. Liptay, Tautomerization in fluorescent states of bipyridyl-diols. A direct confirmation of the intramolecular double proton transfer by electro-optical emission measurements 52 (1992) 265
Bourson, J., see Valeur, B. 52 (1992) 345
Bryant, F.J., see Hommel, D. 52 (1992) 325
Busse, W., see Hommel, D. 52 (1992) 325

Cardon, F., see Poelman, D. 52 (1992) 259
Cashel, M.L., see Sweeting, L.M. 52 (1992) 281
Chang, L.L., see Peter, G. 52 (1992) 147
Chou, W.C., see Petrou, A. 52 (1992) 175

Delalande, C., see Peter, G. 52 (1992) 147
Deleporte, E., see Peter, G. 52 (1992) 147
De Visschere, P. and K. Neyts, Concentration quenching and luminescent decay in AC thin-film ZnS:Mn electroluminescent devices 52 (1992) 313
Donegan, J.F., see Stanley, R.P. 52 (1992) 109
Duncan, I., see Li, Y. 52 (1992) 275

Endoh, Y., see Taguchi, T. 52 (1992) 123

Fedorov, D.L., Spectroscopy of II–VI semiconductor solid solutions with structural phase transitions 52 (1992) 233
Feldman, R.D., see Stanley, R.P. 52 (1992) 109
Furdyna, J.K., see Awschalom, D.D. 52 (1992) 165
Furdyna, J.K., see Oh, E. 52 (1992) 183

Gaponenko, S.V., I.E. Malinovsky, L.T. Perelman and L.G. Zimin, Light pulse propagation through ZnSe monocrystals under conditions of excitonic nonlinearity and bistability 52 (1992) 225
Gavryushin, V., see Baltramiejūnas, R. 52 (1992) 71
Gebhardt, W., see Wagner, H.P. 52 (1992) 41
Gil, B., see Peter, G. 52 (1992) 147
Grabowska, A., see Borowicz, P. 52 (1992) 265
Gubarev, S.I., Anomalous magneto-optical properties of CdMnS crystals 52 (1992) 193
Gumlich, H.-E., see Hommel, D. 52 (1992) 325
Gunshor, R.L., see Nurmikko, A.V. 52 (1992) 89
Gutowski, J., see Kudlek, G. 52 (1992) 55

Hegarty, J., see Stanley, R.P. 52 (1992) 109
Henderson, B., see O'Donnell, K.P. 52 (1992) 133
Hoffman, K.R., U. Hömmerich, S.M. Jacobsen and W.M. Yen, On the emission and excitation spectrum of the NIR laser center in Cr:YAG 52 (1992) 277
Hommel, D., F.J. Bryant, M.J.R. Swift, W. Busse and H.-E. Gumlich, The influence of II–VI lattice damage on rare earth sites as determined by site selective spectroscopy and cathodoluminescence: argon implanted ZnS:Sm 52 (1992) 325
Hömmerich, U., see Hoffman, K.R. 52 (1992) 277
Hong, J.M., see Peter, G. 52 (1992) 147
Hucke, M., see Köhler, J. 52 (1992) 293

Jacobsen, S.M., see Hoffman, K.R. 52 (1992) 277
Jonker, B.T., see Petrou, A. 52 (1992) 175
Juodžbalis, D., see Baltramiejūnas, R. 52 (1992) 71

Katiyar, M. and A.H. Kitai, Effect of organized doping on concentration quenching in ZnS:Mn 52 (1992) 309
Kazlauskas, A., see Baltramiejūnas, R. 52 (1992) 71
Kitai, A.H., see Katiyar, M. 52 (1992) 309
Köhler, J., M. Hucke and D. Schmid, Spectroscopic studies of singlet exciton-thermalization in $NaNO_2$ single crystals 52 (1992) 293
Kremerman, V.A., see Ryskin, A.I. 52 (1992) 83
Kudlek, G. and J. Gutowski, Analysis of strain and impurity distribution in II–VI epilayers with optical methods 52 (1992) 55
Kuhn, W., see Wagner, H.P. 52 (1992) 41

Laflère, W.H., see Poelman, D. 52 (1992) 259
Laks, D.B., see Van de Walle, C.G. 52 (1992) 1
Lankes, S., see Wagner, H.P. 52 (1992) 41
Li, Y., I. Duncan and T. Morrow, Absolute fluorescence quantum efficiency of titanium-doped sapphire at ambient temperature 52 (1992) 275
Lichtenberger, D., see Wagner, H.P. 52 (1992) 41
Link, P., see Wagner, H.P. 52 (1992) 41
Liptay, W., see Borowicz, P. 52 (1992) 265
Liu, X.C., see Petrou, A. 52 (1992) 175
Luo, H., see Awschalom, D.D. 52 (1992) 165

Malinovsky, I.E., see Gaponenko, S.V. 52 (1992) 225
Mitsuyu, T., see Ohkawa, K. 52 (1992) 9
Morrow, T., see Li, Y. 52 (1992) 275

Nakagome, H., see Taniguchi, M. 52 (1992) 251
Neumark, G.F., see Yi, G.-J. 52 (1992) 243
Neyts, K., see De Visschere, P. 52 (1992) 313
Nikogosyan, D.N., see Zayats, A.V. 52 (1992) 335
Nozue, Y., see Taguchi, T. 52 (1992) 123
Nurmikko, A.V. and R.L. Gunshor, Optical properties and device prospects of ZnSe-based quantum structures 52 (1992) 89

O'Donnell, K.P. and B. Henderson, The Zn(Cd)S(Se) family of superlattices 52 (1992) 133
Oh, E., A.K. Ramdas and J.K. Furdyna, Magneto-optic phenomena in II–VI diluted magnetic semiconductors: the Faraday and the Voigt effect 52 (1992) 183
Ohkawa, K. and T. Mitsuyu, Photoluminescence properties of nitrogen-doped ZnSe layers grown by molecular beam epitaxy with ion- and radical-beam doping techniques 52 (1992) 9
Ohno, T., see Taguchi, T. 52 (1992) 123
Olego, D.J., see Shahzad, K. 52 (1992) 17

Perelman, L.T., see Gaponenko, S.V. 52 (1992) 225
Permogorov, S. and A. Reznitsky, Effect of disorder on the optical spectra of wide-gap II–VI semiconductor solid solutions 52 (1992) 201
Peter, G., E. Deleporte, G. Bastard, J.-M. Berroir, C. Delalande, B. Gil, J.M. Hong and L.L. Chang, Studies of exchange-induced properties of CdTe/CdMnTe superlattices 52 (1992) 147
Petrou, A., W.C. Chou, X.C. Liu, J. Warnock and B.T. Jonker, DMS based quantum wells with magnetically tuned heavy hole confinement 52 (1992) 175
Petruzzello, J., see Shahzad, K. 52 (1992) 17
Poelman, D., R.L. Van Meirhaeghe, W.H. Laflère and F. Cardon, The influence of Se co-evaporation on the electroluminescent properties of SrS:Ce thin films 52 (1992) 259
Pouget, J., see Valeur, B. 52 (1992) 345

Račiukaitis, G., see Baltramiejūnas, R. 52 (1992) 71
Ramdas, A.K., see Oh, E. 52 (1992) 183
Repeyev, Yu.A., see Zayats, A.V. 52 (1992) 335
Reznitsky, A., see Permogorov, S. 52 (1992) 201
Rosenblatt, M.M., see Sweeting, L.M. 52 (1992) 281
Rosenfeld, Yu.B., see Ryskin, A.I. 52 (1992) 83
Ryskin, A.I., A.V. Vasil'ev, V.A. Kremerman and Yu.B. Rosenfeld, Vibronic interaction and luminescence of ZnSe:Cr 52 (1992) 83
Ryzhikov, V.D., see Baltramiejūnas, R. 52 (1992) 71

Samarth, N., see Awschalom, D.D. 52 (1992) 165
Schmid, D., see Köhler, J. 52 (1992) 293
Shahzad, K., D.J. Olego and J. Petruzzello, Optical and vibrational properties of doped zinc selenide epitaxial layers 52 (1992) 17
Silin, V.I., see Baltramiejūnas, R. 52 (1992) 71
Smyth, J.F., see Awschalom, D.D. 52 (1992) 165
Stanley, R.P., J.F. Donegan, J. Hegarty, R.D. Feldman and R.F. Austin, Dynamics of excitons in CdZnTe/ZnTe quantum wells 52 (1992) 109
Stepankevičius, V., see Baltramiejūnas, R. 52 (1992) 71
Sweeting, L.M., M.L. Cashel and M.M. Rosenblatt, Triboluminescence spectra of organic crystals are sensitive to conditions of acquisition 52 (1992) 281
Swift, M.J.R., see Hommel, D. 52 (1992) 325

Taguchi, T., Y. Endoh, T. Ohno and Y. Nozue, Excitonic properties of CdZnS/ZnS strained-layer quantum wells 52 (1992) 123
Takahei, K., see Taniguchi, M. 52 (1992) 251
Taniguchi, M., H. Nakagome and K. Takahei, Luminescence lifetime studies of Nd-doped GaP and GaAs 52 (1992) 251

Valeur, B., J. Pouget and J. Bourson, Photoinduced electronic energy transfer in a supramolecular complex between a coumarin bichromophoric molecule and lead(II) 52 (1992) 345
Van de Walle, C.G. and D.B. Laks, Theory of defects, impurities, and doping in ZnSe 52 (1992) 1
Van Meirhaeghe, R.L., see Poelman, D. 52 (1992) 259
Vasil'ev, A.V., see Ryskin, A.I. 52 (1992) 83
Vinogradov, E.A., see Zayats, A.V. 52 (1992) 335

Wagner, H.P., S. Lankes, K. Wolf, D. Lichtenberger, W. Kuhn, P. Link and W. Gebhardt, Resonant excitation of intrinsic and shallow trap luminescence in MOVPE grown ZnTe layers 52 (1992) 41

Warnock, J., see Petrou, A. 52 (1992) 175
Wolf, K., see Wagner, H.P. 52 (1992) 41
Wortmann, R., see Borowicz, P. 52 (1992) 265

Yen, W.M., see Hoffman, K.R. 52 (1992) 277
Yi, G.-J. and G.F. Neumark, Role of excitation transfer in luminescence spectra and decay 52 (1992) 243
Zayats, A.V., Yu.A. Repeyev, D.N. Nikogosyan and E.A. Vinogradov, Radiative recombination in short-period a-Si/SiO superlattices 52 (1992) 335
Zimin, L.G., see Gaponenko, S.V. 52 (1992) 225

Journal of Luminescence 52 (1992) 352–353
North-Holland

JOURNAL OF
LUMINESCENCE

Subject index

Absorption edge 201
Acceptor 9
Adiabatic potential surface 83

Bichromophore 345
Bipyridyl-diols 265
Birefringence 233

Cathodoluminescence 325
Coumarin 345

d^2 ion 277
Dipole moments 265
Disorder 201
Donor 1, 17
Donor–acceptor emission 325
Donor–acceptor pair 243
Doping 1, 9, 17
Dynamic energy transfer model 309

Electro-optical emission measurements 265
Electroluminescence 259
Energy transfer 309, 313
– electronic 345
– resonant 41
Excitation transfer mechanism 243
Exciton 109
– bound 55
– coherence 293
– confinement 89, 109
– dynamics 109
– hot 123
– line width 89
– localization 201
– luminescence 233
– relaxation 109
– thermalization 293
Excitonic absorption 89
Exciton–phonon interaction 89, 109, 123, 293

Faraday rotation 183
Fluorescence 293
Fluorescence line narrowing 293
Fractoluminescence 281

H-bond 265
Hopping 243
HWE 55

Impurity 1, 55
– isovalent 71

Jahn–Teller effect 83

Lasers
– blue diode 89
– near-infrared 277
Lattice damage 325
Luminescence
– hot 335
– near-infrared 277
– quenching 313
Luminescence efficiency 309
Luminescence lifetime 251
Luminescence spectroscopy 281

Magnetic semiconductor
– diluted 147, 165, 175, 183, 193
Magneto-optical effects 183, 193
Magneto-optical spectroscopy 147, 165, 175
MOCVD 225
Molecular beam epitaxy (MBE) 9, 17, 55
MOVPE 41, 55

Native defects 1
Nonlinear effects 71
Nonlinear medium 225
Nonexponential decay 313

Optical bistability 225
Optical pumping 89
Organized doping 309

Photocalorimetric compensation 275
Photoinduced absorption 71
Photoluminescence 251, 281, 325, 335
Piezoelectricity 281
Polaron
– magnetic 165
Proton transfer
– excited state 265

Quantum
– well 89, 109
– well laser 89
– well, double 165

– well, magnetic 165
– well, type-II 165
Quantum efficiency 275

Recombination
– radiative 201, 335
Relaxation
– nonradiative 335
Resonant Raman scattering 55

Self-compensation 1
Solid state spectroscopy 281
Spectra 259
Spectroscopy
– site-selective 325
– time-resolved 325
Spin dynamics 165
Spin separation 175
Spin-flip Raman scattering 193
Spin–spin exchange interaction 147, 165, 175, 183, 193
Superlattice
– magnetic 147, 175
– short-period 335
– strained layer 123, 133
– type-I 147
– type-II 147
Supramolecular photochemistry 345

Thin film 259
– devices 313
III–V compounds 251
Trap 41
Triboluminescence 281
Two-photon process 325

Vacancies 259
Vibronic interaction 83
Voig effect 183

Wannier–Stark localization 123

Zero-phonon lines 277

Journal of Luminescence 52 (1992) 354
North-Holland

JOURNAL OF
LUMINESCENCE

Materials index

CdMnS 193
CdMnSe 165, 183
CdMnTe 147
CdS 133
CdSe 89, 133
CdSSe 201
CdTe 89, 147
Ce^{3+} 259
Coumarin 281
Coumarin bichromophores 345
Cr:YAG 277
Cr^{3+} 277

Isopropylcarbinalate 281

Mn 309
m-nitrobenzonitrile 281
MnTe 89

$NaNO_2$ 293
Nd^{3+} 251
9-anthracenemethanol 281

p-anisidine 281

Resorcinol 281

Sapphire: Ti^{3+} 275
Si
– amorphous 335
SiO_2 335
Sm^{3+} 325
SrS:Ce 259
$SrS_{1-x}Se_x$ 259
Sucrose 281

3-chloro-[2,2′-bipyridyl]-3′-ol 265
3-methoxy-[2,2′-bipyridyl]-3′-ol 265
Triphenylphosphine oxide 281
2,2′-bipyridyl-3-ol 265

ZnCdS 123, 133
ZnCdSe 89, 133, 165, 233
ZnCdTe 89, 109
ZnFeSe 175
ZnMgS 233
ZnMnSe 165, 175
ZnS 123, 133
ZnS:Mn 309, 313
ZnS: Sm^{3+} 325
ZnSe 1, 9, 17, 55, 89, 133, 165, 175, 225, 243
ZnSe:Cr 83
ZnSe:Te 71
ZnSeTe 201
ZnSSe 89, 133
ZnTe 41, 55, 89, 109, 165